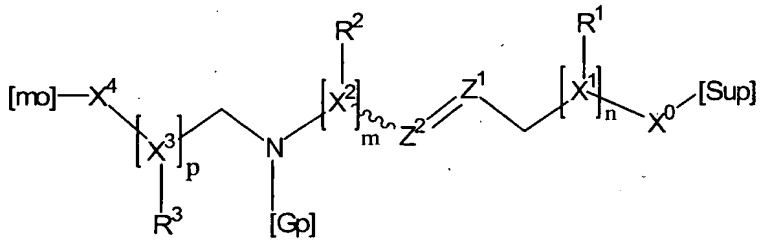
ABSTRACT

The present invention relates to a molecular spacer arm, to a process for attachment of a molecular unit to a solid support, and also to the use of this spacer arm on analytical chips comprising molecules or biomolecules. The spacer arm has the formula (I):



(I)

in which X^0, X^4 = C, O, S, Se, N, P, As; X^{1-3} = C, O, N, S, Se, P, As, or C_{1-6} aryl or heteroaryl; Z^{1-2} = C-R, Si-R, N, P and As, where R = C_{1-6} alkyl; R^{1-3} = H, or C_{1-6} alkyl, aryl or heteroaryl; [Gp] = protective group for >N; n, m and p = integers ≥ 1; [Sup] = H or a silanized solid support; and [mo] = H or a molecular unit intended to be covalently attached to said silanized solid support by means of said spacer arm.